

Title (en)

Spool assembly for non-explosive actuators used in electro-mechanical structural separation devices

Title (de)

Gehäuse eines elektromechanischen Aktuators zum Trennen von Strukturbauteilen

Title (fr)

Boîtier de vérin électromécanique utilisé dans la séparation d'éléments de structure

Publication

EP 1426291 A1 20040609 (EN)

Application

EP 03257667 A 20031205

Priority

US 31357302 A 20021206

Abstract (en)

An improved spool assembly (100) for non-explosive actuators used in electromechanical structural separation devices includes two spool halves (110,120) each having external surfaces (113,123) and a generally flat internal surface (114,124), a unitary and integral internal member (140) made of an electrically conductive material and having a link-wire portion (142) and two electrical terminal portions (144,146), and an external wrap-wire (130) wound around the two spool halves (110,120) and having a connecting end (134) connected to the link-wire portion (142) of the unitary and integral internal member (140) such that the wrap-wire (130) tightly binds the two spool halves (110,120) together to form a spool for retaining an external structural member (102). <IMAGE>

IPC 1-7

B64G 1/64; G05G 17/00; H01H 71/18

IPC 8 full level

B64G 1/64 (2006.01); **G05G 17/00** (2006.01); **B64G 1/22** (2006.01)

CPC (source: EP US)

B64G 1/222 (2013.01 - US); **B64G 1/2228** (2023.08 - EP); **B64G 1/645** (2013.01 - US); **B64G 1/6455** (2023.08 - EP); **G05G 17/00** (2013.01 - EP US); **F16B 2200/63** (2023.08 - EP US); **Y10T 74/11** (2015.01 - EP US); **Y10T 403/21** (2015.01 - EP US)

Citation (search report)

- [DA] US 5748066 A 19980505 - HOLT ANDREW J [US]
- [A] US 5606889 A 19970304 - BIELINSKI SLAWOMIR J [US], et al
- [DA] US 3924688 A 19751209 - COOPER EARL A, et al
- [DA] US 5621373 A 19970415 - MCCORMICK LARRY L [US]

Cited by

WO2012021910A1; EP3293122A1; KR101406925B1; FR3055887A1; EP1612141A1; US10518907B2; US11299298B2; US7396182B2; US10549869B2; WO2018051025A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)

EP 1426291 A1 20040609; **EP 1426291 B1 20060329**; AT E321699 T1 20060415; DE 60304301 D1 20060518; DE 60304301 T2 20061214; US 6747541 B1 20040608

DOCDB simple family (application)

EP 03257667 A 20031205; AT 03257667 T 20031205; DE 60304301 T 20031205; US 31357302 A 20021206